Issuance Date: June 30, 2005 Effective Date: August 1, 2005 Expiration Date: June 29, 2010 Amended Date: January 26, 2006

STATE WASTE DISCHARGE PERMIT NUMBER ST 8043

STATE OF WASHINGTON DEPARTMENT OF ECOLOGY Eastern Regional Office

In compliance with the provisions of the State of Washington Water Pollution Control Law Chapter 90.48 Revised Code of Washington, as amended, authorizes

Lakeview Terrace Mobile Home Park
Owner: Dick Wells BCW and Associates
Operating Company: Grand Vista LLC

6856 East French Gulch Road Couer D' Alene, Idaho 83814

to discharge wastewater in accordance with the special and general conditions which follow.

<u>Plant Location</u>: <u>Discharge Location</u>:

Legal Description: E1/2, NE1/4, of the SE1/4 of Section17, Range31, Township28N E.W.M.

Treatment Type Latitude: 47° 55′ 24" N Facultative Lagoon Treatment followed by Longitude: 118° 56′ 12" W

wetland polishing and percolation

James M. Bellatty Water Quality Section Manager Eastern Regional Office Washington State Department of Ecology

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SUMMARY OF PERMIT REPORT SUBMITTALS

Refer to the Special and General Conditions of this permit for additional submittal requirements.

Permit Section	Submittal	Frequency	First Submittal Date
S3.A.	Discharge Monitoring Report	Monthly	September 15, 2005
S4.C.	Wasteload Assessment	1/permit cycle	June 1, 2009
S5.G.	Operations and Maintenance Manual	1/permit cycle	March 6, 2008
S6.B.	Residual Solids Mgmt. Plan	1/permit cycle	
S8.A	Plans and Specifications	1/permit cycle	January 2006
S8.B	Construction Quality Assurance Plan	1/permit cycle	March 2006
S8.D.1	Appendix A Vadose Zone Monitoring	As needed	First one Prior to January 6, 2008
S8.D.2	Operations and Maintenance Manual	1/permit cycle	March 6, 2008
G8.	Application for permit renewal	1/permit cycle	November 30, 2009

SPECIAL CONDITIONS

S1. DISCHARGE LIMITATIONS

All discharges and activities authorized by this permit shall be consistent with the terms and conditions of this permit. The discharge of any of the following pollutants more frequently than, or at a concentration in excess of, that authorized by this permit shall constitute a violation of the terms and conditions of this permit.

Beginning on the effective date and lasting through the expiration date of this permit, the Permittees (BCW and Grand Vista LLC) are authorized to discharge wastewater to a wetland polishing infiltration pond, at the permitted location subject to the following limitations:

Approximately 1/3 acres of wetland polishing pond located approximately 2.5 miles east of the city of Grand Coulee on the south side of Lake Roosevelt.

SE1/2, NE1/4 of the SE1/4 of Section 17, Township 28N, Range. 31E W.M.

Condition S1. Discharges shall be subject to the following limitations:

	EFFLUENT LIMITATIONS		
Parameter	Average Monthly ^a	Maximum Daily ^b	
Flow	16,690 gpd	20,780 gpd	
Total Kjeldahl Nitrogen ^c	43 mg/l	43 mg/l	

^a The average monthly effluent limitation is defined as the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

S2. MONITORING REQUIREMENTS

A. Wastewater Monitoring

The sampling point for the influent will be at the influent Palmer-Bowlus flume.

b The maximum daily effluent limitation is defined as the highest allowable daily discharge. The daily discharge means the discharge of a pollutant measured during a calendar day. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For other units of measurement, the daily discharge is the average measurement of the pollutant over the day.

^c Sum of organic nitrogen, and ammonia.

The sampling point for the effluent from the above ground treatment works will be at the end of pipe prior to discharging into wetland cell that serves as the infiltration basin.

The Permittees (BCW and Grand Vista LLC) shall monitor the wastewater according to the following schedule:

Parameter	Units	Sample Point	Sampling Frequency	Sample Type
Flow	MGD	Palmer-Bowlus Flume	Compiled and reported as daily flows	Instantaneous Flow
рН	Standard Units			
TKN (as N)	mg/l	Pipe into Wetland Cell	Once per month	Grab

B. Vadose Zone Monitoring

The Vadose Zone sampling point for the treated wastewater will be directly below the root zone prior to entry into the saturated ground water table. Samples will be collected from the Vadose Zone monitoring device at this location in the drainage below the wetland polishing lagoon cell.

The Permittees (BCW and Grand Vista LLC) shall monitor the wastewater/percolate according to the agreed list and schedule found in Appendix A of the Operations and Maintenance Manual.

C. Sampling and Analytical Procedures

Samples and measurements taken to meet the requirements of this permit shall be representative of the volume and nature of the monitored parameters, including representative sampling of any unusual discharge or discharge condition, including bypasses, upsets and maintenance-related conditions affecting effluent quality.

Ground water sampling shall conform to the latest protocols in the *Implementation Guidance for the Ground Water Quality Standards*, (Ecology 1996).

Sampling and analytical methods used to meet the water and wastewater monitoring requirements specified in this permit shall conform to the latest revision of the *Guidelines Establishing Test Procedures for the Analysis of Pollutants* contained in 40 CFR Part 136 or to the latest revision of *Standard Methods for the Examination of Water and Wastewater* (APHA), unless otherwise specified in this permit or approved in writing by the Department of Ecology (Department).

All soil analysis and reporting will be in accordance with *Laboratory Procedures*, Soil Testing Laboratory, Washington State University, November 1981.

Sludge monitoring requirements specified in this permit shall be conducted according to test procedures specified in 40 CFR Part 503.

D. Flow Measurement

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the quantity of monitored flows. The devices shall be installed, calibrated, and maintained to ensure that the accuracy of the measurements are consistent with the accepted industry standard for that type of device. Frequency of calibration shall be in conformance with manufacturer's recommendations and at a minimum frequency of at least one calibration per year. Calibration records shall be maintained for at least three years.

E. Laboratory Accreditation

All monitoring data required by the Department shall be prepared by a laboratory registered or accredited under the provisions of, *Accreditation of Environmental Laboratories*, Chapter 173-50 WAC. Flow, temperature, settleable solids, conductivity, pH, and internal process control parameters are exempt from this requirement. Conductivity and pH shall be accredited if the laboratory must otherwise be registered or accredited. Crops, soils, and hazardous waste testing has not been included in the accreditation program. Crops, soils, and hazardous waste data shall be provided by a lab accredited for similar parameters in water media.

S3. REPORTING AND RECORDKEEPING REQUIREMENTS

The Permittees (BCW and Grand Vista LLC) shall monitor and report in accordance with the following conditions. The falsification of information submitted to the Department shall constitute a violation of the terms and conditions of this permit.

A. Reporting

The first monitoring period begins on the effective date of the permit. Monitoring results shall be submitted monthly. Monitoring data obtained during the previous month shall be summarized and reported on a form provided, or otherwise approved, by the Department, and be received no later than the 15th day of the month following the completed reporting period, unless otherwise specified in this permit. Priority pollutant analysis data shall be submitted no later than 45 days following the reporting period. The report(s) shall be sent to the

Department of Ecology, Eastern Regional Office, 4601 North Monroe Street Spokane, Washington 99205-1295. Discharge Monitoring Report forms must be submitted monthly whether or not the facility was discharging. If there was no discharge or the facility was not operating during a given monitoring period, submit the form as required with the words "no discharge" entered in place of the monitoring results.

B. Records Retention

The Permittees (BCW and Grand Vista LLC) shall retain records of all monitoring information for a minimum of three years. Such information shall include all calibration and maintenance records and all original recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the Permittees (BCW and Grand Vista LLC) or when requested by the Director.

The Permittees (BCW and Grand Vista LLC) shall retain all records pertaining to the monitoring of sludge for a minimum of five years.

C. <u>Recording of Results</u>

For each measurement or sample taken, the Permittees shall record the following information: (1) the date, exact place and time of sampling; (2) the individual who performed the sampling or measurement; (3) the dates the analyses were performed; (4) who performed the analyses; (5) the analytical techniques or methods used; and (6) the results of all analyses.

D. Additional Monitoring by the Permittee

If the Permittees (BCW and Grand Vista LLC) monitors any pollutant more frequently than required by this permit using test procedures specified by Condition S2.of this permit, then the results of this monitoring shall be included in calculation and reporting of the data submitted in the Permittees' (BCW and Grand Vista LLC) self-monitoring reports.

E. <u>Noncompliance Notification</u>

In the event the Permittees (BCW and Grand Vista LLC) is unable to comply with any of the permit terms and conditions due to any cause, that Permittee shall:

- 1. Immediately take action to stop, contain, and cleanup unauthorized discharges or otherwise stop the violation, and correct the problem;
- 2. Repeat sampling and analysis of any violation and submit the results to the Department within 30 days after becoming aware of the violation;
- 3. Immediately notify the Department of the failure to comply; and

4. Submit a detailed written report to the Department within thirty days, unless requested earlier by the Department, describing the nature of the violation, corrective action taken and/or planned, steps to be taken to prevent a recurrence, results of the resampling, and any other pertinent information.

Compliance with these requirements does not relieve the Permittee from responsibility to maintain continuous compliance with the terms and conditions of this permit or the resulting liability for failure to comply.

F. Maintaining a Copy of This Permit

A copy of this permit shall be kept at the treatment plant and be made available to the public or Ecology inspectors.

S4. FACILITY LOADING

A. Design Criteria

Flows or waste loadings of the following design criteria for the permitted treatment facility shall not be exceeded:

DESIGN CRITERIA: Flow, gallons per day	Startup	Design Ultimate
Annual average Maximum monthly average ¹ Maximum day ^{1,2}	16,690 20,780	16,000 20,800
Effluent		
Total Kjeldahl Nitrogen – Average Annual	43 mg/l	

B. Plans for Maintaining Adequate Capacity

When the actual flow or wasteload reaches 85 percent of any one of the design criteria in S4.A. for three consecutive months, or when the projected increases would reach design capacity within five years, whichever occurs first, the Permittee shall submit to the Department, a plan and a schedule for continuing to maintain capacity at the facility sufficient to achieve the effluent limitations and other conditions of this permit. This plan shall address any of the following actions or any others necessary to meet this objective.

1. Analysis of the present design including the introduction of any process modifications that would establish the ability of the existing facility to achieve the effluent limits and other requirements of this permit at specific levels in excess of the existing design criteria specified in paragraph A above.

- 2. Reduction or elimination of excessive infiltration and inflow of uncontaminated ground and surface water into the sewer system.
- 3. Limitation on future sewer extensions or connections or additional wasteloads.
- 4. Modification or expansion of facilities necessary to accommodate increased flow or wasteload.
- 5. Reduction of industrial or commercial flows or waste loads to allow for increasing sanitary flow or wasteload.

Engineering documents associated with the plan must meet the requirements of WAC 173-240-060, "Engineering Report," and be approved by the Department prior to any construction. The plan shall specify any contracts, ordinances, methods for financing, or other arrangements necessary to achieve this objective.

C. Wasteload Assessment

The Permittees shall be jointly responsible for the conduct one assessment of their flow and waste load and submit this report to the Department by June 1, 2009. The report shall contain the following: an indication of compliance or noncompliance with the permit effluent limitations; a comparison between the existing and design monthly average dry weather and wet weather flows, and the TKN loading on the wetland polishing cell and the TKN remaining in the Vadose Zone Percolate. The report shall also state the present and design population or population equivalent, projected population growth rate, and the estimated date upon which the design capacity is projected to be reached, according to the most restrictive of the parameters above. The interval for review and reporting may be modified if the Department determines that a different frequency is necessary.

S5. OPERATION AND MAINTENANCE

The Permittees (BCW and Grand Vista LLC) shall at all times be responsible for the proper operation and maintenance of any facilities or systems of control installed to achieve compliance with the terms and conditions of the permit.

A. Certified Operator

An operator certified for at least a Class I plant by the State of Washington shall be in responsible charge of the day-to-day operation of the wastewater treatment plant. An operator certified for at least a Class I plant shall be in charge during all regularly scheduled shifts.

B. O & M Program

The Permittees (BCW owners and Grand Vista LLC) shall institute an adequate operation and maintenance program for their entire sewage system. Maintenance records shall be maintained on all major electrical and mechanical components of the treatment plant, as well as the sewage system and pumping stations. Such records shall clearly specify the frequency and type of maintenance recommended by the manufacturer and shall show the frequency and type of maintenance performed. These maintenance records shall be available for inspection at all times.

C. Short-term Reduction

If either Permittee contemplates a reduction in the level of treatment that would cause a violation of permit discharge limitations on a short-term basis for any reason, and such reduction cannot be avoided, the Permittee shall give written notification to the Department, if possible, 30 days prior to such activities, detailing the reasons for, length of time of, and the potential effects of the reduced level of treatment. This notification does not relieve the Permittee of their obligations under this permit.

D. Electrical Power Failure

The Permittees (BCW and Grand Vista LLC) are both responsible for maintaining adequate safeguards to prevent the discharge of untreated wastes or wastes not treated in accordance with the requirements of this permit during electrical power failure at the treatment plant and/or sewage lift stations either by means of alternate power sources, standby generator, or retention of inadequately treated wastes. The Permittee shall maintain Reliability Class II (EPA 430-99-74-001) at the wastewater treatment plant, which requires primary sedimentation and disinfection.

E. <u>Clear water Inflow Reduction</u>

The Permittees (Both BCW and Grand Vista LLC) shall reduce inflow into the system to the maximum extent possible. Refer to the U.S. EPA publication, *I/I Analysis and Project Certification*, available as Publication No. 97-03 at: Publications Office, Department of Ecology, PO Box 47600, Olympia, WA, 98504-7600. Plant monitoring records may be used to assess measurable excess inflow of clear water.

F. Operations and Maintenance Manual

An Operations and Maintenance (O&M) Manual shall be prepared by the Permittees in accordance with WAC 173-240-080 and be submitted to the Department for approval within (specify) after permit effective date. The O&M Manual shall be reviewed by the Permittees at least once in this permit cycle. The Permittees shall confirm the review by letter and/or a manual update to the Department. All manual changes or updates shall be submitted to the Department

whenever they are incorporated into the manual. The approved operation and maintenance manual shall be kept available at the treatment plant.

The operation and maintenance manual shall contain the treatment plant process control monitoring schedule. This process monitoring schedule shall contain the list of parameters and the frequency of monitoring to be performed on the vadose zone monitoring device placed below the wetland polishing lagoon. A special Appendix A to the O&M manual shall be prepared to show the parameters and frequency of this monitoring the first iteration of this monitoring Appendix shall be submitted not later than January, 6 of 2008. All operators shall follow the instructions and procedures of this manual.

S6. RESIDUAL SOLIDS

Residual solids include screenings, grit, scum, primary sludge, waste activated sludge and other solid waste. The Permittees (BCW and Grand Vista LLC) shall store and handle all residual solids in such a manner so as to prevent their entry into state ground or surface waters. The Permittees (both BCW and Grand Vista LLC) shall not discharge leachate from residual solids to state surface or ground waters. The Permittees may discharge leachate from residual solids to the head of the wastewater treatment works if overloading of the treatment works will not occur.

S7. ENGINEERING REPORT (FACILITY PLAN)

Two copies of an approvable engineering report have be prepared by the Permittees (BCW and Grand Vista LLC) in accordance with WAC 173-240 and submitted to the Department for review and approval.

This report does contain all appropriate requirements as described in the following guidance: "Design Criteria for Municipal Wastewater Land Treatment Systems for Public Health Protection" (Washington State Department of Health, 1994); "Guidelines for Preparation of Engineering Reports for Industrial Wastewater Land Application Systems" (Washington State Department of Ecology, 1993).

A. Plans and Specifications

No later than (specify time) after the approval date of the engineering report, the Permittees (BCW and Grand Vista LLC) shall submit to the Department for review and approval two copies of plans and specifications in accordance with WAC 173-240.

B. Construction Quality Assurance Plan

Prior to the start of construction, the Permittees (BCW and Grand Vista LLC) shall submit to the Department a quality assurance plan as required by WAC 173-240.

S8. COMPLIANCE SCHEDULE

- A. Prepare plans and specifications by January 2006
- B. Prepare A Construction Quality Assurance Plan: By March 2006
- C. Finish Construction of the lagoons for facultative wastewater treatment.
 - 1. Finish installation of Lagoon liners October 1, 2007
 - 2. Finish installation of the Vadose Zone percolate collection pipe October 15, 2007
- D. Prepare and O&M manual for the facility and the collection system including an Appendix A.
 - 1. Appendix A is a schedule for monitoring the Vadose Zone percolate collection pipe this shall be completed by January 6, 2008
 - 2. The Operations and Maintenance (O&M) manual itself shall be completed and submitted by March 6, 2008

S9. GROUND WATER LOADING EVALUATION (VADOSE ZONE DISCHARGE)

The Permittees (BCW and Grand Vista LLC) shall evaluate the impacts of its activities on ground water quality by completing the Vadose Zone monitoring device below the wetland polishing lagoon and beginning to collect data on the quality of the water percolated below the wetland polishing cell of the treatment lagoons.

After completion of the installation of the ground water monitoring network, the Permittees (BCW and Grand Vista LLC) shall notify the Department and begin monitoring according to Appendix A of the Operations and Maintenance (O&M) manual.

GENERAL CONDITIONS

G1. SIGNATORY REQUIREMENTS

All applications, reports, or information submitted to the Department shall be signed as follows:

- A. All permit applications shall be signed by both an Owner and an Operating Company principle officer.
- B. All reports required by this permit and other information requested by the Department shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - 1. The authorization is made in writing by the person described above and is submitted to the Department at the time of authorization, and
 - 2. The authorization specifies either a named individual or any individual occupying a named position.
- C. Changes to authorization. If an authorization under paragraph B.2. above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization must be submitted to the Department prior to or together with any reports, information, or applications to be signed by an authorized representative.
- D. Certification. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

G2. RIGHT OF ENTRY

Representatives of the Department shall have the right to enter at all reasonable times in or upon any property, public or private, for the purpose of inspecting and investigating conditions relating to the pollution or the possible pollution of any waters of the state. Reasonable times shall include normal business hours; hours during which production, treatment, or discharge occurs; or times when the Department suspects a violation requiring immediate inspection. Representatives of the Department shall be allowed to have access to, and copy at reasonable cost, any records required to be kept under terms and conditions of the permit; to inspect any monitoring equipment or method required in the permit; and to sample the discharge, waste treatment processes, or internal waste streams.

G3. PERMIT ACTIONS

This permit shall be subject to modification, suspension, or termination, in whole or in part by the Department for any of the following causes:

- A. Violation of any permit term or condition;
- B. Obtaining a permit by misrepresentation or failure to disclose all relevant facts;
- C. A material change in quantity or type of waste disposal;
- D. A material change in the condition of the waters of the state; or
- E. Nonpayment of fees assessed pursuant to RCW 90.48.465.

The Department may also modify this permit, including the schedule of compliance or other conditions, if it determines good and valid cause exists, including promulgation or revisions of regulations or new information.

G4. REPORTING A CAUSE FOR MODIFICATION

The Permittees (BCW and Grand Vista LLC) shall submit a new application, or a supplement to the previous application, along with required engineering plans and reports, whenever a new or increased discharge or change in the nature of the discharge is anticipated which is not specifically authorized by this permit. This application shall be submitted at least 60 days prior to any proposed changes. Submission of this application does not relieve the Permittee of the duty to comply with the existing permit until it is modified or reissued.

G5. NOTIFICATION OF NEW OR ALTERED SOURCES

The Permittees (BCW and Grand Vista LLC) shall submit written notice to the Department whenever any new discharge or increase in volume or change in character of an existing discharge into the sewer is proposed which: (1) would interfere with the operation of, or exceed the design capacity of, any portion of the collection or treatment system; (2) would increase the total system flow or influent waste loading by more than 10 percent; (3) is not part of an approved general sewer plan or approved plans and specifications; or would be subject to pretreatment standards under 40 CFR Part 403 and Section 307(b) of the Clean Water Act. This notice shall include an evaluation of the system's ability to adequately transport and treat the added flow and/or wasteload.

G6. PLAN REVIEW REQUIRED

Prior to constructing or modifying any wastewater control facilities, an engineering report and detailed plans and specifications shall be submitted to the Department for approval in accordance with Chapter 173-240 WAC. Engineering reports, plans, and specifications should be submitted at least 180 days prior to the planned start of construction. Facilities shall be constructed and operated in accordance with the approved plans.

G7. COMPLIANCE WITH OTHER LAWS AND STATUTES

Nothing in the permit shall be construed as excusing the Permittees (either BCW or Grand Vista LLC) from compliance with any applicable federal, state, or local statutes, ordinances, or regulations.

G8. DUTY TO REAPPLY

The Permittees (BCW and Grand Vista LLC) must apply for permit renewal at least 180 days prior to the specified expiration date of this permit.

G9. PAYMENT OF FEES

The Permittees (BCW and Grand Vista LLC) shall submit payment of fees associated with this permit as assessed by the Department. The Department may revoke this permit if the permit fees established under Chapter 173-224 WAC are not paid.

G10. PENALTIES FOR VIOLATING PERMIT CONDITIONS

Any person who is found guilty of willfully violating the terms and conditions of this permit shall be deemed guilty of a crime, and upon conviction thereof shall be punished by a fine of up to ten thousand dollars and costs of prosecution, or by imprisonment in the discretion of the court. Each day upon which a willful violation occurs may be deemed a separate and additional violation.

Any person who violates the terms and conditions of a waste discharge permit shall incur, in addition to any other penalty as provided by law, a civil penalty in the amount of up to ten thousand dollars for every such violation. Each and every such violation shall be a separate and distinct offense, and in case of a continuing violation, every day's continuance shall be and be deemed to be a separate and distinct violation.